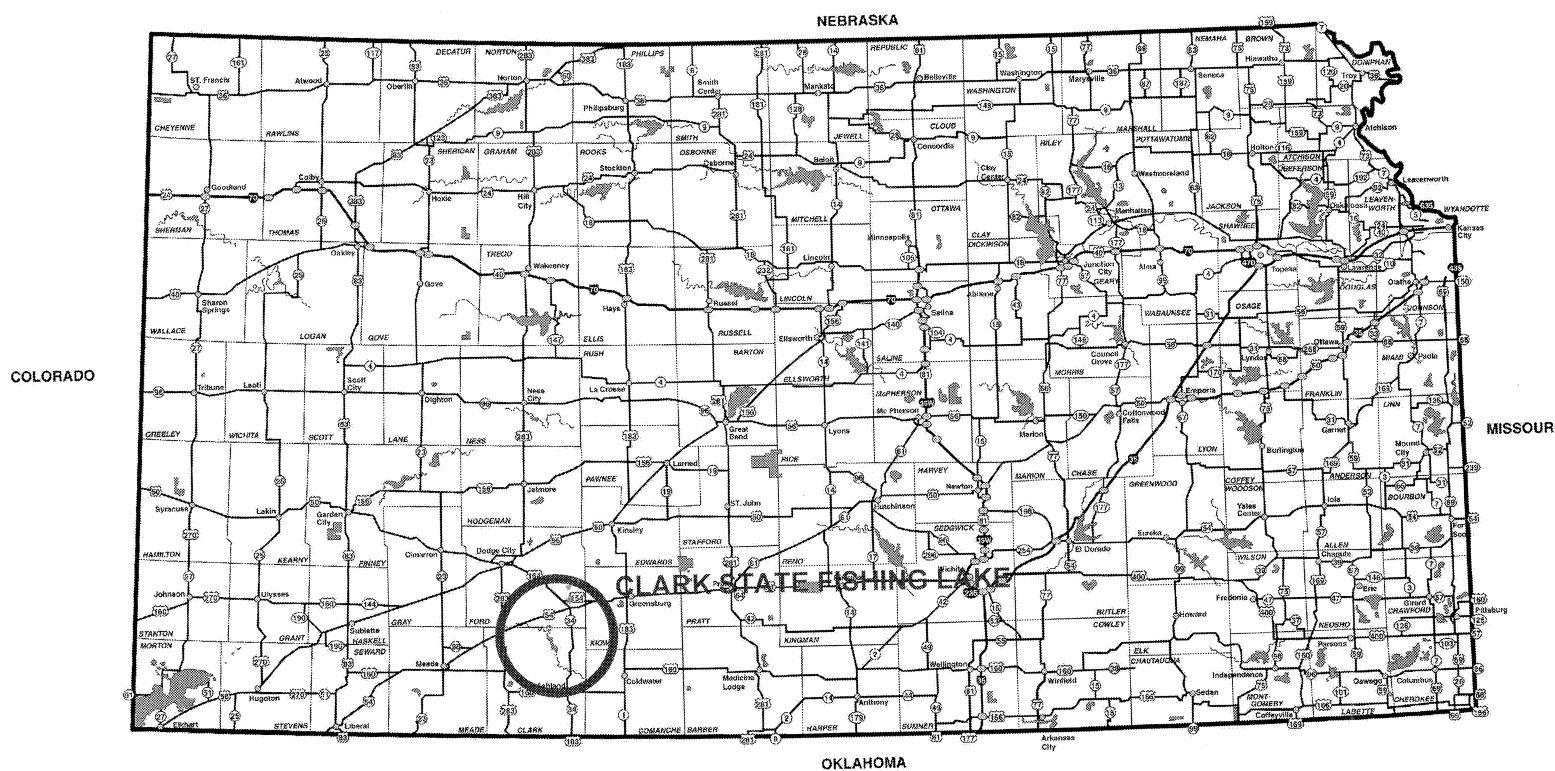


# CLARK STATE FISHING LAKE

## EAST SHORE BOAT ACCESS AREA IMPROVEMENTS

### 2015



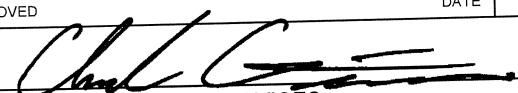
#### PROJECT CONTACTS

JON ZUERCHER  
CLARK STATE FISHING LAKE  
PUBLIC LANDS MANAGER  
(620) 474-6292

COLBY BUTLER  
KDWPT ENGINEERING SERVICES  
PROJECT ENGINEER  
(620) 672-0762

#### SHEET INDEX

1. COVER
2. SITE PLAN, CONSTRUCTION NOTES
3. KDWPT STANDARDS FOR BULKHEAD CONSTRUCTION AND SHORELINE ANCHORAGE

APPROVED	DATE	12/11/2015
		
CHIEF, ENGINEERING SERVICES KANSAS DEPARTMENT OF WILDLIFE, PARKS AND TOURISM		

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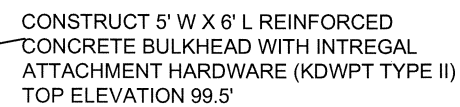
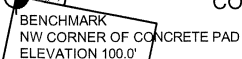
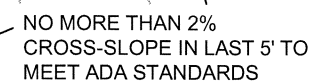
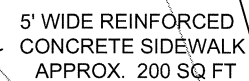
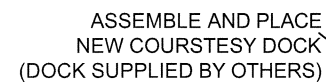
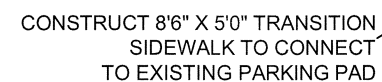
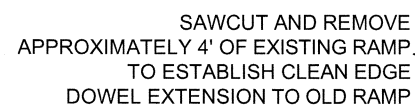
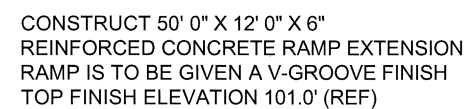
Kansas Department of Wildlife,  
Parks and Tourism  
Engineering Services Section  
512 SE 25th Ave,  
Pratt, Kansas 67124

#### CLARK STATE FISHING LAKE

EAST SHORE BOAT ACCESS AREA  
IMPROVEMENTS  
2015

Project #	SHEET 1 OF 3
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- 1) PROJECT IS LOCATED AT CLARK STATE FISHING LAKE, 11 MILES SOUTH OF KINGSDOWN ON STATE HIGHWAY 94. LOCAL CONTACT FOR THE PROJECT IS JON ZUERCHER (620) 474-6292. CONTACT LOCAL MANAGER 48 HOURS IN ADVANCE OF MOBILIZATION OR OF ANY WORK BEING PERFORMED. KDWPT ENGINEERING SERVICES CONTACT IS COLBY BUTLER 620-672-0762
- 2) REMOVE EXISTING CONCRETE BULKHEAD AND SIDEWALK. CONSTRUCT AND COMPACT FILL UNDER BULKHEAD, SIDEWALKS AND RAMP EXTENSIONS TO KDOT TYPE "B" STANDARDS. CONTACT LOCAL MANAGER FOR THE AVAILABILITY OF FILL MATERIALS. DISPOSE OF ALL CONCRETE MATERIALS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
- 3) CONSTRUCT BULKHEAD AS SHOWN ON SHEET #3 KDWPT CONSTRUCTION STANDARDS FOR TYPE II BULKHEAD AND SHORELINE ANCHORAGE. DEPTH OF BULKHEAD TO BE SUFFICIENT FOR ANCHORAGE GIVEN SITE CONDITIONS.
- 4) TRANSITIONAL SIDEWALK SHALL CONNECT TO BULKHEAD AND SHALL TERMINATE AT EDGE OF THE EXSITING ADA RAMP. SIDEWALKS TO BE 6" MINIMUM IN DEPTH AND SHALL BE REINFORCED WITH 6 X 6 X W4 X W4 STEEL MESH. DOWEL TO THE BULKHEAD AND ADA PAD WITH #4 REBAR SET A MINIMUM OF 9" BOTH WAYS.
- 5) CONTRACTOR TO EXCAVATE A 36" BY 36" BY 36" DEEP HOLE, FILL WITH CONCRETE FOR STIFF ARM ANCHORAGE, PLACE VENDOR SUPPLIED ANCHOR IN LOCATION AS SHOWN. ELEVATION OF EYE IN FLANGE TO CORRESPOND TO BULKHEAD ATTACHMENT HINGE.
- 6) THE CONTRACTOR SHALL ASSEMBLE AND PLACE DOCK AFTER A CURE TIME OF AT LEAST SEVEN DAYS ON THE BULKHEAD CONCRETE. FOLLOW MANUFACTURERS INSTRUCTIONS FOR DOCK ASSEMBLY, HARDWARE PLACEMENT AND PLACEMENT OF THE STRUCTURE IN THE WATER.
- 7) RAMP EXTENSION TO BE 6" MINIMUM IN DEPTH AND SHALL BE REINFORCED WITH #4 REBAR SET ON 18" CENTERS, BOTH WAYS. SUPPORT REINFORCEMENT BY MEANS OF STEEL CHAIRS, MID SLAB. SAWCUT JOINTS 1/4 DEPTH OF SLAB AT LINES NO GREATER THAN EVERY 10 L.F. WITHIN 24 HOURS OF POUR.
- 8) CONNECT SIDEWALK TO NEW RESTROOM WITH #4 REBAR DOWELS SET WITH EPOXY EVERY 18" MAX.
- 9) NEW ADA UNLOADING PAD NEXT TO RESTROOM IS TO BE REINFORCED WITH #4 REBAR ON 18" CENTERS BOTH WAYS
- 10) NEW CONCRETE MUST BE BARRICADED TO PROTECT FROM FOOT AND VEHICLE TRAFFIC TILL IT HAS ACHIEVED PROPER STRENGTH
- 11) UPON COMPLETION OF ALL WORK, LEAVE THE WORK AREA IN A CLEAN, AESTHETICALLY PLEASING CONDITION, REMOVE ALL CONSTRUCTION RELATED DEBRIS ON A DAILY BASIS.



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**Kansas Department of Wildlife,  
Parks and Tourism  
Engineering Services Section  
512 SE 25th Ave.  
Pratt, Kansas 67124**

CLARK STATE FISHING LAKE

## EAST SHORE BOAT ACCESS AREA IMPROVEMENTS 2015

Project #	Project Name	Start Date	End Date	Status	Budget	Actual Cost	Variance	ROI
1	Project A	2023-01-01	2023-06-30	Completed	\$1,000,000	\$950,000	\$50,000	5%
2	Project B	2023-07-01	2023-12-31	In Progress	\$800,000	\$780,000	\$20,000	2.5%
3	Project C	2024-01-01	2024-03-31	On Hold	\$500,000	\$500,000	\$0	0%
4	Project D	2024-04-01	2024-09-30	Planned	\$1,200,000	\$0	\$1,200,000	-100%
5	Project E	2024-10-01	2025-03-31	Approved	\$900,000	\$0	\$900,000	-100%

**SHEET**  
**2**  
**OF**  
**3**

SPECIFICATIONS FOR CONCRETE

THE CONCRETE SHALL BE CONCRETE (GRADE 4.0)(AE) THAT CONSIST OF PORTLAND CEMENT, COARSE AGGREGATE, FINE AGGREGATE AND WATER; PROPORTIONED AND MIXED TO PRODUCE A PLASTIC WORKABLE MIX SUITABLE FOR PLACEMENT IN SPECIFIED CONDITIONS. READY-MIXED CONCRETE MAY BE USED PROVIDED THE RESIDENT ENGINEER OR HIS REPRESENTATIVE IS PERMITTED FREE ACCESS TO THE MIXING PLANT. MIX DESIGN SUBJECT TO APPROVAL BY OWNERS REPRESENTATIVE.

THE CONCRETE WILL BE PROPORTIONED WITHIN THE FOLLOWING LIMITS: ALL MATERIALS BEING MEASURED BY WEIGHT, CONSIDERING A SACK OF CEMENT AS 94 POUNDS AND ONE GALLON OF WATER AT 8.33 POUNDS.

*CEMENT CONTENT, SACKS PER CUBIC YARD (MINIMUM).....	6.5	(602 LB.)
MAXIMUM WATER-TO-CEMENT RATIO.....	0.49	
MAXIMUM TOTAL WATER (GALLONS PER SACK OF CEMENT).....	5.5	
SLUMP (INCHES).....	2" - 4"	
PERCENT OF ENTRAINED AIR BY VOLUME.....	6% +/- 2%	
MAXIMUM AGGREGATE SIZE.....	3/4"	

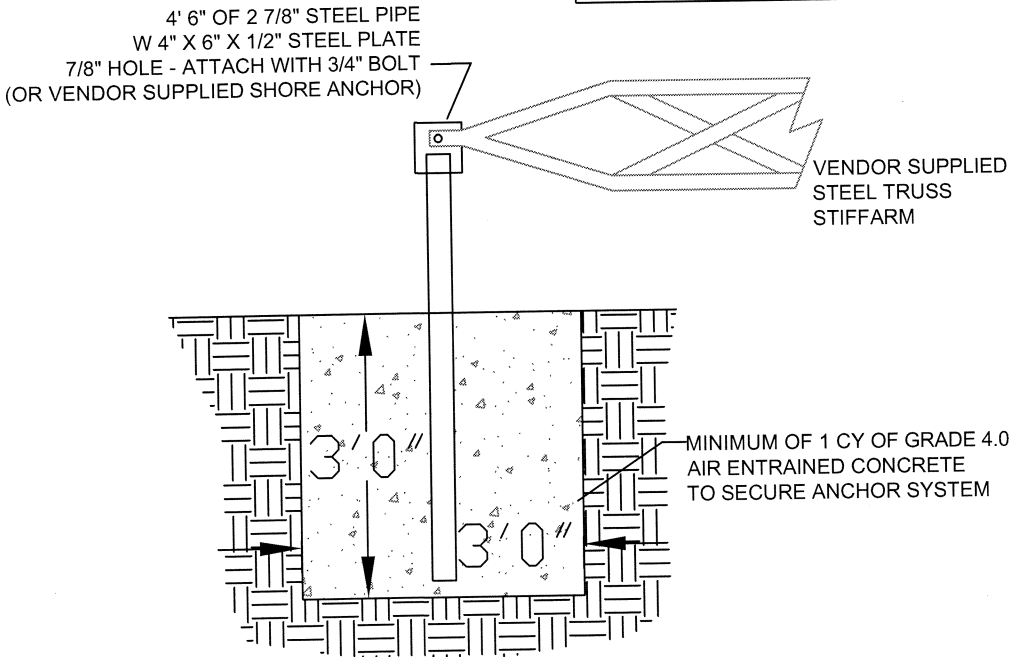
\*620 LB (MIN.) IF A MIXED AGGREGATE WITH 30% OR MORE (BY WT.) ON THE No. 4 SIEVE IS USED.

THE 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4,000 PSI MINIMUM.

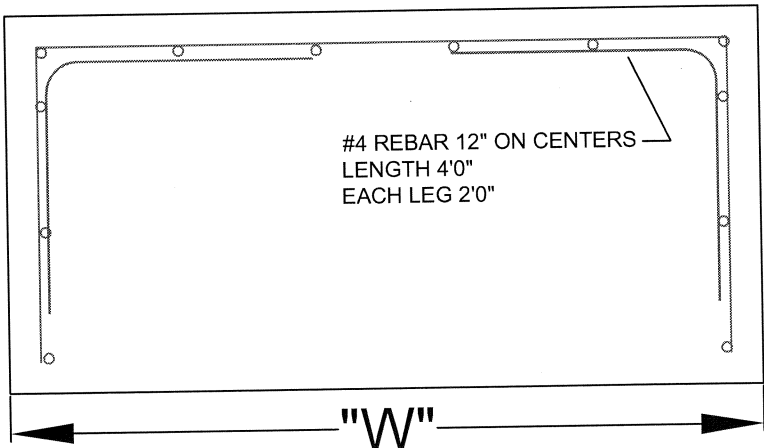
ADMIXTURES. ALL MATERIALS ARE SUBJECT TO APPROVAL BY THE KANSAS DEPARTMENT OF WILDLIFE AND PARKS.

DOCK AND BULKHEAD CONSTRUCTION NOTES

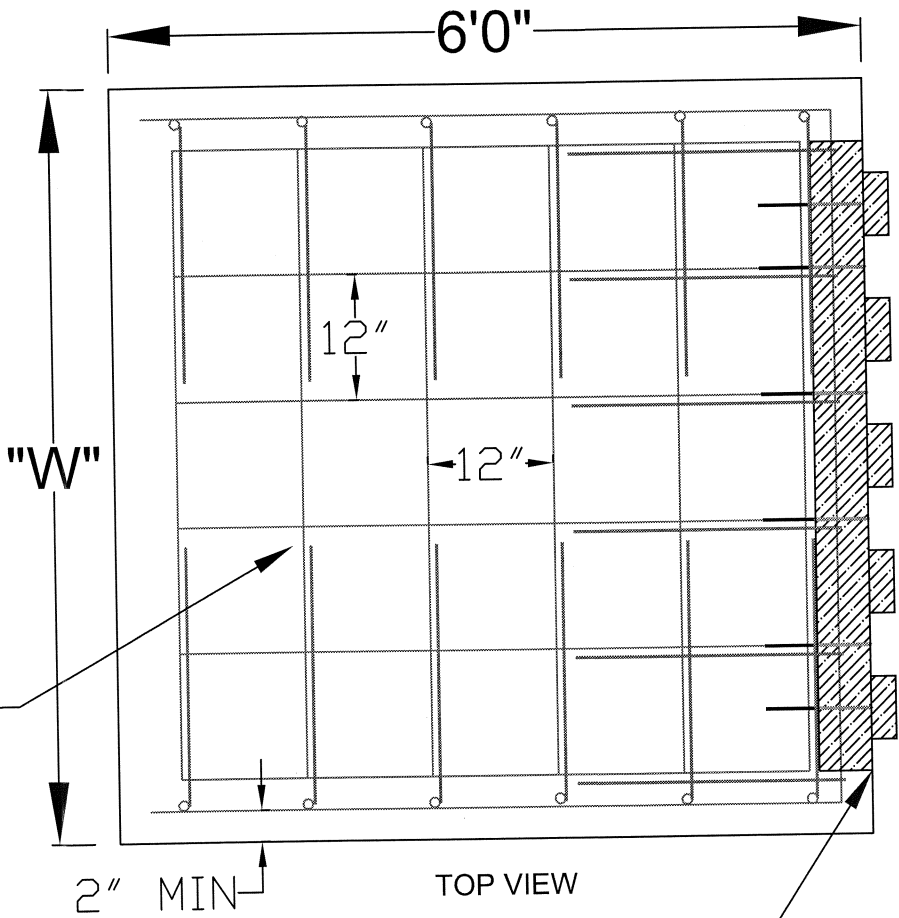
- 1) FLOATING DOCK SHOWN IS ANCHORED WITH VENDOR SUPPLIED STIFF ARM. OTHER ANCHORAGE TO INCLUDE, BUT NOT LIMITED TO, STEEL CABLE, PIPE PILINGS, ETC. REFER TO INDIVIDUAL SITE PLANS FOR ANCHORAGE DETAILS AND SPECIFIC SITE CONDITIONS.
- 2) IF ANCHORS ARE TO BE SET IN ROCK SUBSTRATE, CONSULT WITH PROJECT MANAGER FOR CHANGES WITH REGARD TO TYPE AND OR DEPTH OF CONCRETE ANCHOR SYSTEM TO BE USED.
- 3) BULKHEAD DIMENSIONS SHOWN ARE MINIMUM SIZES ACCEPTABLE. AS A RULE OF THUMB, WIDTH OF CONCRETE BULKHEAD SHOULD BE NO LESS THAN 1'0" WIDER THAN THE RAMP SECTION OR GANGWAY THAT ATTACHES TO THE DOCK. DEPTH MAY VARY DUE TO SUBSURFACE CONDITIONS.
- 4) DO NOT POUR CONCRETE INTO FORMS THAT CONTAIN WATER.
- 5) PROVIDE RIP RAP PROTECTION AROUND ALL NEW CONSTRUCTION AS SPECIFIED BY PROJECT ENGINEER.
- 6) REMOVE ALL CONSTRUCTION RELATED DEBRIS ON A DAILY BASIS - DO NOT ALLOW DEBRIS TO COME IN CONTACT WITH WATER. CLEAN ENTIRE WORK SITE UPON COMPLETION OF PROJECT.



SHORE ANCHOR FOR DOCK WITH STIFF ARM STABILIZATION



END VIEW



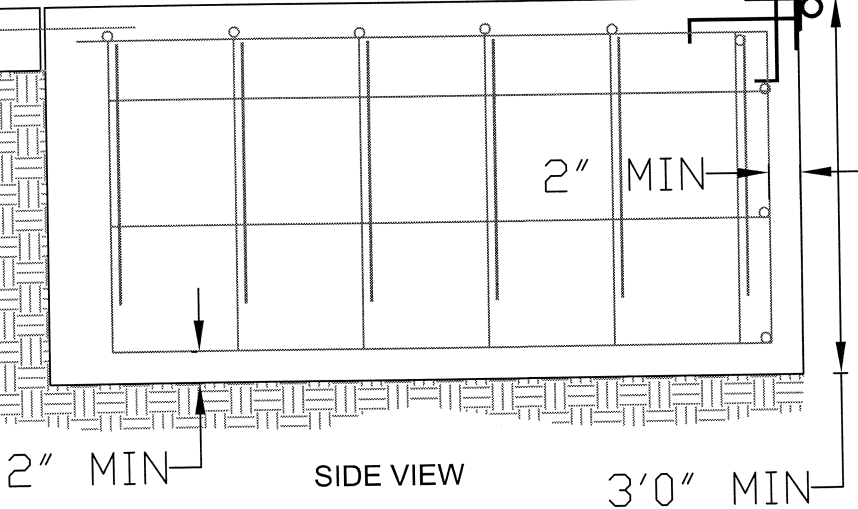
TOP VIEW

#4 REBAR ON 12" CENTERS BOTH WAYS

6" REINFORCED CONCRETE SIDEWALK - DOWEL WITH (3) #4 X 18" REBAR SET 9" BOTH WAYS

COMPACTED EARTH SUBSTRATE

VENDOR SUPPLIED BULKHEAD ATTACHMENT BRACKET



SIDE VIEW

KDWPT TYPE II BULKHEAD

NOTE:

THIS BULKHEAD FOR STANDARD CONFIGURATION DOCK UTILIZING BULKHEAD ATTACHMENT HARDWARE AS SUPPLIED BY DOCK VENDOR.

"W" DENOTES WIDTH OF GANGWAY PLUS ONE FOOT.

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KDWPT STANDARDS				
DOCK BULKHEAD CONSTRUCTION AND ANCHORAGE DETAILS				
Project				
SHEET 3 OF 3				